



Geology Department
Faculty of Science
Damanhour University
Examiner: Dr. Maged El Osta

3rd Geology
Hydrogeology
Second Term (2015 – 2016)
Time: (1 hours)

Answer the following Questions:

Q1: Define each of the following (10 points):

Groundwater – The water table – The main parts of vertical distribution of groundwater – Cone of depression – Darcy's experimental law.

QII : Write on the following, illustrating your answer with drawing if it possible (20 points).

1. Contact spring.
2. Confined aquifer.
3. Pumping test and its parameters.
4. Drilled wells.
5. Groundwater recharges or deep percolation.
6. Factors affecting groundwater Fluctuations.
7. Aquitard.
8. Groundwater origin.

φ GOOD LUCK φ



Geology Department
Faculty of Science
Damanhour University
Examiner: Dr. Mohamed Alaa



3rd Geology
Geology of petroleum
Second Term (2015 – 2016)
Time: (1 hours)

Answer the following Questions:

QI: Draw a plot showing all the rock units of the Miocene age in the Gulf of Suez area. Which of those rock units considered as a good reservoir rocks and which one could be considered as source rocks? Why? Mention names of 4 oil fields in the Gulf of Suez area. (15 points)

QII: Write your notes about the following:-

1. Origin and Maturation of organic matter draw a plot showing degree of maturation of each phase (Cooking process). (10 points)
2. Stratigraphic traps, mention two types of this type of traps. (5 points)

φ GOOD LUCK φ



Geology Department
Faculty of Science
Damanhour University
Examiner: Dr. Maged El Osta

3rd Geology
Hydrogeology
Second Term (2015 – 2016)
Time: (1 hours)

Answer the following Questions:

Q1: Define each of the following (10 points):

Groundwater – The water table – The main parts of vertical distribution of groundwater – Cone of depression – Darcy's experimental law.

QII : Write on the following, illustrating your answer with drawing if it possible (20 points).

1. Contact spring.
2. Confined aquifer.
3. Pumping test and its parameters.
4. Drilled wells.
5. Groundwater recharges or deep percolation.
6. Factors affecting groundwater Fluctuations.
7. Aquitard.
8. Groundwater origin.

φ GOOD LUCK φ



Geology Department
Faculty of Science
Damanhour University
Examiner: Dr. Mohamed Alaa

3rd Geology
Geology of petroleum
Second Term (2015 – 2016)
Time: (1 hours)

Answer the following Questions:

QI: Draw a plot showing all the rock units of the Miocene age in the Gulf of Suez area. Which of those rock units considered as a good reservoir rocks and which one could be considered as source rocks? Why? Mention names of 4 oil fields in the Gulf of Suez area.
(15 points)

QII: Write your notes about the following:-

1. Origin and Maturation of organic matter draw a plot showing degree of maturation of each phase (Cooking process). (10 points)
2. Stratigraphic traps, mention two types of this type of traps. (5 points)

φ GOOD LUCK φ

	DAMANHOUR UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY			
	EXAMINATION FOR LEVEL THREE GEOLOGY-GEOPHYSICS AND GEOLOGY-CHEMISTRY STUDENTS			
	COURSE TITLE:	ECONOMIC GEOLOGY		COURSE CODE: G 302
DATE:	JUNE, 2016	TERM: SECOND	TOTAL ASSESSMENT MARKS: 60	TIME ALLOWED: 2 HOURS

Answer the following questions, illustrating with drawing if it possible:-

1. Define the following:-

(12 marks)

- Economic mineral deposits.
- Hypogene ore minerals.
- Paragenesis.
- Solid solution in iron titanium oxides.
- Geothermometry.
- Kalib line light test.

2. What are the difference between the following:-

(24 marks)

- Epigene and Epigenetic.
- Gypsite and Gibbsite.
- Soda ash and Salt cake.
- Veins and Chimneys.
- Contact metamorphic and contact metasomatic mineral deposits.
- Fe and Mn deposits related to sedimentation process.

3. Answer with drawing only:-

(24 marks)

- Magmatic mineral deposits.
- Hydrothermal cavity filling mineral deposits.
- Oxidation and supergene enrichment.
- Free working distance.
- Schematic cross section showing thermal and mechanical deformation zones.
- Shape and fracture characteristics of microindentation hardness.

EXAMINER	PROF. BOTHINA T. ELDOSUKY	
----------	---------------------------	--

☺Good Luck☺

	DAMANHOUR UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY			
	EXAMINATION FOR LEVEL THREE GEOLOGY-GEOPHYSICS AND GEOLOGY-CHEMISTRY STUDENTS			
	COURSE TITLE:	ECONOMIC GEOLOGY		COURSE CODE: G 302
DATE:	JUNE, 2016	TERM: SECOND	TOTAL ASSESSMENT MARKS: 60	TIME ALLOWED: 2 HOURS

Answer the following questions, illustrating with drawing if it possible:-

1. Define the following:- (12 marks)

- Economic mineral deposits.
- Hypogene ore minerals.
- Paragenesis.
- Solid solution in iron titanium oxides.
- Geothermometry.
- Kalib line light test.

2. What are the difference between the following:- (24 marks)

- Epigene and Epigenetic.
- Gypsite and Gibbsite.
- Soda ash and Salt cake.
- Veins and Chimneys.
- Contact metamorphic and contact metasomatic mineral deposits.
- Fe and Mn deposits related to sedimentation process.

3. Answer with drawing only:- (24 marks)

- Magmatic mineral deposits.
- Hydrothermal cavity filling mineral deposits.
- Oxidation and supergene enrichment.
- Free working distance.
- Schematic cross section showing thermal and mechanical deformation zones.
- Shape and fracture characteristics of microindentation hardness.

EXAMINER	PROF. BOTHINA T. ELDOSUKY	
----------	---------------------------	--

☺Good Luck☺